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* * * * * Welcome to STN International * * * * *

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NEWS 4 FEB 28 BABS - Current-awareness alerts (SDIs) available
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NEWS 6 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 22 KOREAPAT now updated monthly; patent information enhanced
NEWS 9 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 10 MAR 22 PATDPASPC - New patent database available
NEWS 11 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 12 APR 04 EPFULL enhanced with additional patent information and new
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NEWS 13 APR 04 EMBASE - Database reloaded and enhanced
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applications.
NEWS 16 APR 28 Improved searching of U.S. Patent Classifications for
U.S. patent records in CA/CAPLUS
NEWS 17 MAY 23 GBFULL enhanced with patent drawing images
NEWS 18 MAY 23 REGISTRY has been enhanced with source information from
CHEMCATS
NEWS 19 JUN 06 STN Patent Forums to be held in June 2005
NEWS 20 JUN 06 The Analysis Edition of STN Express with Discover!
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NEWS 21 JUN 13 RUSSIAPAT: New full-text patent database on STN
NEWS 22 JUN 13 FRFULL enhanced with patent drawing images
NEWS 23 JUN 20 MEDICONF to be removed from STN

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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DICTIONARY FILE UPDATES: 23 JUN 2005 HIGHEST RN 852898-09-0

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*
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* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
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*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s (ni 0-62)/mac
293159 NI/MAC
781887 0-62/MAC
L1 257206 (NI 0-62)/MAC
(NI/MAC (P) 0-62/MAC)

=> s 1 and (co 15-25)/mac
17434332 1
118083 CO/MAC
233472 15-25/MAC
15591 (CO 15-25)/MAC
(CO/MAC (P) 15-25/MAC)
L2 6917 1 AND (CO 15-25)/MAC

=> s 2 and (cr 15-25)/mac
18760891 2
297766 CR/MAC
233472 15-25/MAC
84992 (CR 15-25)/MAC
(CR/MAC (P) 15-25/MAC)
L3 49062 2 AND (CR 15-25)/MAC

=> s 3 and (co 15-25)/mac
14838039 3
118083 CO/MAC
233472 15-25/MAC
15591 (CO 15-25)/MAC
(CO/MAC (P) 15-25/MAC)
L4 5003 3 AND (CO 15-25)/MAC

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=> s 14 and (al 5-15)/mac
    226113 AL/MAC
    381692 5-15/MAC
    38189 (AL 5-15)/MAC
        (AL/MAC (P) 5-15/MAC)
L5      559 L4 AND (AL 5-15)/MAC

=> s 15 and (Y 0.1-1.0)/mac
    12138 Y/MAC
    525383 0.1-1.0/MAC
    5956 (Y 0.1-1.0)/MAC
        (Y/MAC (P) 0.1-1.0/MAC)
L6      96 L5 AND (Y 0.1-1.0)/MAC

=> s 16 and (pt 0-35)/mac
    14905 PT/MAC
    772091 0-35/MAC
    7364 (PT 0-35)/MAC
        (PT/MAC (P) 0-35/MAC)
L7      3 L6 AND (PT 0-35)/MAC

=> s 17 and (hf 0-5)/mac
    12957 HF/MAC
    666003 0-5/MAC
    8532 (HF 0-5)/MAC
        (HF/MAC (P) 0-5/MAC)
L8      0 L7 AND (HF 0-5)/MAC

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=> d 17 1-3 all

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L7  ANSWER 1 OF 3  REGISTRY  COPYRIGHT 2005 ACS on STN
RN  165102-77-2  REGISTRY
ED  Entered STN:   20 Jul 1995
CN  Cobalt alloy, base, Co 23-80,Cr 10-50,Al 4-12,Ta 3-8,Pt 3-6,Y 0.1-1
    (9CI) (CA INDEX NAME)
MF  Al . Co . Cr . Pt . Ta . Y
CI  AYS
SR  CA
LC  STN Files:   CA, CAPLUS, USPATFULL
DT.CA  Caplus document type: Patent
RL.P   Roles from patents:  USES (Uses)

```

Component	Component Percent	Component Registry Number
Co	23 - 80	7440-48-4
Cr	10 - 50	7440-47-3
Al	4 - 12	7429-90-5
Ta	3 - 8	7440-25-7
Pt	3 - 6	7440-06-4
Y	0.1 - 1	7440-65-5

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

```

AN  123:63362  CA
TI  Alloys and dispersion composites for coating resistant to hot corrosion
    and oxidation in gas-turbine service
IN  Bettridge, David Frederick; Taylor, Thomas Alan; Tucker, Robert Clark, Jr.
PA  Rolls-Royce PLC, UK; Praxair Inc.
SO  Eur. Pat. Appl., 19 pp.
    CODEN: EPXXDW
DT  Patent
LA  English
IC  ICM C23C004-06

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ICS C23C030-00; C23C004-18
56-3 (Nonferrous Metals and Alloys)
Section cross-reference(s): 57

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 652299	A1	19950510	EP 1994-308035	19941101
	EP 652299	B1	19961227		
	----- R----- AT, CH, DE, FR, GB, IT, LI, SE -----				
	US 5455119	A	19951003	US 1993-148460	19931108
	AT 146825	E	19970115	AT 1994-308035	19941101
	CA 2135233	AA	19950509	CA 1994-2135233	19941107
	CA 2135233	C	19980714		
	BR 9404361	A	19950704	BR 1994-4361	19941107
	CN 1105396	A	19950719	CN 1994-118165	19941107
	CN 1055512	B	20000816		
	JP 07252674	A2	19951003	JP 1994-295973	19941107
	JP 2920076	B2	19990719		
	KR 227237	B1	19991101	KR 1994-29047	19941107

PRAI US 1993-148460 19931108

AB The MCrAlY-type alloys suitable for spray coating (as well as for composites with oxide dispersion) contain M (as Fe, Co, and/or Ni) nominally at 19-83, Cr 10-50, Al 4-14, Y (and optionally Hf) 0.1-3, and optionally addnl. Ta, Re, and/or Pt at 3-14 weight%. The alloys are preferably used as composite with an oxide dispersion (especially Al₂O₃) at 5-20 volume%, and are suitable for coating of superalloy parts operating in high-temperature oxidizing environments. The alloy or composite layer is optionally coated with a top layer of ZrO₂ or Al and/or Cr, and is suitable for thermal barrier service. The typical alloy for powder-spray coating 6 mils thick on Mar-M-002 superalloy for gas turbine service contains Co 32, Ni 32, Cr 21, Al 8, Y 0.5, and Pt 6 weight%.

ST cobalt chromium aluminum yttrium alloy coating; nickel chromium aluminum alloy coating; turbine coating chromium aluminum alloy; oxide composite chromium alloy coating; thermal barrier chromium alloy composite

IT Turbines

(coatings for; alloy composites with oxide dispersion for coating resistant to hot corrosion and oxidation in gas-turbine service)

IT Aluminizing
Chromizing

(coatings with; alloy composites with oxide dispersion for coating resistant to hot corrosion and oxidation in gas-turbine service)

IT Coating materials

(composites; alloy composites with oxide dispersion for coating resistant to hot corrosion and oxidation in gas-turbine service)

IT Alloys, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(thermal barriers on; alloy composites with oxide dispersion for coating as thermal barrier on superalloy parts in gas-turbine service)

IT 7429-90-5, Aluminum, uses 7439-89-6, Iron, uses 7440-02-0, Nickel, uses 7440-06-4, Platinum, uses 7440-15-5, Rhenium, uses 7440-25-7, Tantalum, uses 7440-47-3, Chromium, uses 7440-48-4, Cobalt, uses 7440-58-6, Hafnium, uses 7440-65-5, Yttrium, uses

RL: MOA (Modifier or additive use); USES (Uses)
(alloys containing; alloys and dispersion composites for coating resistant to hot corrosion and oxidation in gas-turbine service)

IT 61048-41-7 61048-42-8

RL: MOA (Modifier or additive use); USES (Uses)
(coatings; alloy composites with oxide dispersion for coatings resistant to hot corrosion and oxidation in gas-turbine service)

IT 165047-03-0 165047-04-1 165047-05-2 165047-06-3 165047-07-4
165047-08-5 165047-09-6 165047-10-9 165047-11-0 165047-12-1
165047-13-2 165047-14-3 165047-15-4 165047-16-5 165102-69-2
165102-70-5 165102-71-6 165102-72-7 165102-73-8 165102-74-9
165102-75-0 165102-76-1 165102-77-2

RL: TEM (Technical or engineered material use); USES (Uses)
(coatings; alloy composites with oxide dispersion for coatings resistant to hot corrosion and oxidation in gas-turbine service)

IT 1314-20-1, Thoria, uses 1314-23-4, Zirconia, uses 1314-36-9, Yttria,

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uses 1344-28-1, Alumina, uses 12055-23-1, Hafnia
RL: MOA (Modifier or additive use); USES (Uses)
(dispersed; alloy composites with oxide dispersion for coatings
resistant to hot corrosion and oxidation in gas-turbine service)

L7 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
RN 165102-76-1 REGISTRY
ED Entered STN: 20 Jul 1995
CN Nickel alloy, base, Ni 6-62, Co 10-40, Cr 15-25, Al 7-14, Ta 3-8, Pt 3-6, Y
0.1-1 (9CI) (CA INDEX NAME)
MF Al . Co . Cr . Ni . Pt . Ta . Y
CI AYS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: USES (Uses)

Component	Component Percent	Component Registry Number
Ni	6 - 62	7440-02-0
Co	10 - 40	7440-48-4
Cr	15 - 25	7440-47-3
Al	7 - 14	7429-90-5
Ta	3 - 8	7440-25-7
Pt	3 - 6	7440-06-4
Y	0.1 - 1	7440-65-5

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

AN 123:63362 CA
TI Alloys and dispersion composites for coating resistant to hot corrosion
and oxidation in gas-turbine service
IN Bettridge, David Frederick; Taylor, Thomas Alan; Tucker, Robert Clark, Jr.
PA Rolls-Royce PLC, UK; Praxair Inc.
SO Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C23C004-06
ICS C23C030-00; C23C004-18
CC 56-3 (Nonferrous Metals and Alloys)
Section cross-reference(s): 57

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	AT 146825	E	19970115	AT 1994-308035	19941101
	CA 2135233	AA	19950509	CA 1994-2135233	19941107
	CA 2135233	C	19980714		
	BR 9404361	A	19950704	BR 1994-4361	19941107
	CN 1105396	A	19950719	CN 1994-118165	19941107
	CN 1055512	B	20000816		
	JP 07252674	A2	19951003	JP 1994-295973	19941107
	JP 2920076	B2	19990719		
	KR 227237	B1	19991101	KR 1994-29047	19941107

PRAI US 1993-148460 19931108

AB The MCrAlY-type alloys suitable for spray coating (as well as for
composites with oxide dispersion) contain M (as Fe, Co, and/or Ni)
nominally at 19-83, Cr 10-50, Al 4-14, Y (and optionally Hf) 0.1-3, and
optionally addnl. Ta, Re, and/or Pt at 3-14 weight%. The alloys are
preferably used as composite with an oxide dispersion (especially Al2O3) at 5-20

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volume%, and are suitable for coating of superalloy parts operating in high-temperature oxidizing environments. The alloy or composite layer is optionally coated with a top layer of ZrO2 or Al and/or Cr, and is suitable for thermal barrier service. The typical alloy for powder-spray coating 6 mils thick on Mar-M-002 superalloy for gas turbine service contains Co 32, Ni 32, Cr 21, Al 8, Y 0.5, and Pt 6 weight%.

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Chromizing
(coatings with; alloy composites with oxide dispersion for coating resistant to hot corrosion and oxidation in gas-turbine service)

IT Coating materials
(composites; alloy composites with oxide dispersion for coating resistant to hot corrosion and oxidation in gas-turbine service)

IT Alloys, uses
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RL: MOA (Modifier or additive use); USES (Uses)
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IT 61048-41-7 61048-42-8
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(coatings; alloy composites with oxide dispersion for coatings resistant to hot corrosion and oxidation in gas-turbine service)

IT 165047-03-0 165047-04-1 165047-05-2 165047-06-3 165047-07-4
165047-08-5 165047-09-6 165047-10-9 165047-11-0 165047-12-1
165047-13-2 165047-14-3 165047-15-4 165047-16-5 165102-69-2
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L7 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN

RN 165102-70-5 REGISTRY

ED Entered STN: 20 Jul 1995

CN Nickel alloy, base, Ni 14-65, Co 10-40, Cr 15-25, Al 7-14, Pt 3-6, Y 0.1-1 (9CI) (CA INDEX NAME)

MF Al . Co . Cr . Ni . Pt . Y

CI AYS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA Caplus document type: Patent

RL.P Roles from patents: USES (Uses)

Component	Component Percent	Component Registry Number
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Cr	15 - 25	7440-47-3
Al	7 - 14	7429-90-5
Pt	3 - 6	7440-06-4

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IN Bettridge, David Frederick; Taylor, Thomas Alan; Tucker, Robert Clark, Jr.
PA Rolls-Royce PLC, UK; Praxair Inc.
SO Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C23C004-06
ICS C23C030-00; C23C004-18
CC 56-3 (Nonferrous Metals and Alloys)
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CA 2135233	AA	19950509	CA 1994-2135233	19941107
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BR 9404361	A	19950704	BR 1994-4361	19941107
CN 1105396	A	19950719	CN 1994-118165	19941107
CN 1055512	B	20000816		
JP 07252674	A2	19951003	JP 1994-295973	19941107
JP 2920076	B2	19990719		
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7440-58-6, Hafnium, uses 7440-65-5, Yttrium, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (alloys containing; alloys and dispersion composites for coating resistant
 to hot corrosion and oxidation in gas-turbine service)

IT 61048-41-7 61048-42-8
 RL: MOA (Modifier or additive use); USES (Uses)
 (coatings; alloy composites with oxide dispersion for coatings
 resistant to hot corrosion and oxidation in gas-turbine service)

IT 165047-03-0 165047-04-1 165047-05-2 165047-06-3 165047-07-4
 165047-08-5 165047-09-6 165047-10-9 165047-11-0 165047-12-1
 165047-13-2 165047-14-3 165047-15-4 165047-16-5 165102-69-2
 165102-70-5 165102-71-6 165102-72-7 165102-73-8 165102-74-9
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 uses 1344-28-1, Alumina, uses 12055-23-1, Hafnia
 RL: MOA (Modifier or additive use); USES (Uses)
 (dispersed; alloy composites with oxide dispersion for coatings
 resistant to hot corrosion and oxidation in gas-turbine service)

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 6-24-05

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	28	(("20020068008") or ("4675204") or ("4808055") or ("4937042") or ("5076897") or ("5374319") or ("5395584") or ("5554837") or ("5622638") or ("5701669") or ("5997248") or ("6149389") or ("6221175") or ("6410159")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:00

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	28	((("20020068008") or ("4675204") or ("4808055") or ("4937042") or ("5076897") or ("5374319") or ("5395584") or ("5554837") or ("5622638") or ("5701669") or ("5997248") or ("6149389") or ("6221175") or ("6410159")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:02
L2	1859	(420/437 or 420/440 or 420/444 or 420/445 or 420/456 or 420/460 or 420/588 or 148/425 or 148/428).cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:05
L3	175	2 and (nickel or ni) and cobalt and (aluminum or aluminium or al) and yttrium and (chromium or cr) and (platinum or pt or hafnium or hf or silicon or si or zirconium or zr or tantalum or ta or rhenium or re or ruthenium or ru)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:07
L4	95	3 and turbine SAME (blade or blades)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:08
L5	77	4 and (coating or coatings or layer or layers)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:09
L6	6	5 and platinum and hafnium and silicon and zirconium and tantalum and rhenium and ruthenium	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:19
L7	11	4 and blade WITH tip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:32
L8	5535	(428/678 or 428/636 or 428/637 or 428/926 or 428/934 or 427/596 or 427/597 or 427/405 or 416/241).cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:34

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6-24-05

L9	793	8 and (platinum or pt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:35
L10	0	9 and (nickel or ni) and cobalt and (chromium or cr) and (aluminum or aluminium or al) and (silicon or si) and yttrium and (hafnium or hf or zirconium or zr or tantalum or ta or rhenium or re or ruthenium or ru).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:38
L11	0	8 and 10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:38
L12	106	9 and mcraly	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:39
L13	62	12 and (nickel or ni) and cobalt and yttrium and (aluminum or aluminium or al) and (chromium or cr)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:39
L14	1	13 and blade WITH tip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 12:46

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("5455119").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/24 16:45